



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 280189 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280189 has 137 members, 14 are drafts.

Phages represented in each track:

- Track 1 : HuffyPuff_128, Command613_129, Bruin_123, MISSy_127, Willez_122, Policronamos_129, OrionPax_123, GooberAzure_128, BigBubba_128, Pumpkin_127, Eureka_126, Sassay_121, Marshmallow_128, FoghornLeghorn_125, Hoonter_129, NoSleep_126, Harella_132, Miniwave_120, Thresher_127, Kimchi_131, TeardropMSU_126, IHOP_129, Holt_132, JeTaime_125, Murica_130, YassJohnny_123, Lilpickle_127, Petra64142_129, DrDrey_130, Nala_128, Argent26_130, ShereKhan_124, Daikon_128, Mosby_123, Myrale_127, BadStone_127, Phaja_129, Bask21_131, Youngblood_130, Tarkin_125, Rimmer_124, Terminus_129, Pharsalus_124, Henry_128, Highbury_122, BugsBunny_126, Elph10_125, Filch_129, TBrady12_130, Xandras_126, Quallification_127, CrystalP_127, Glexan_130, Misfit_127, GoldenSpark_130, Barbarian_126, ChosenOne_128, Rakim_128, Paperbeatsrock_125, Gemini_131, Manda_127, Elite2014_127, Kanye_123, Lilizi_126, FairyPath_125, Becksu_126, Stark_125, Emmina_126, Ptowny_121, Goldilocks_130, Traaww1_123, Gage_128, Palpatine_127, RiverMonster_125, MPhalcon_127, SophKB_125, Hopey_126, StolenFromERC_128, PhatBacter_129, Easy2Say_126, AmericanBeauty_129, StellaBean_124, FireRed_129, Adnama_130, DoctorDiddles_125
- Track 2 : ABCat_127, NelitzaMV_123, Tomaszewski_121, Dumbo_128, Wiggin_129, Gator_128, Phrux_122, Contagion_123, NonchalantPear_124, Cjw1_126, Murphy_125, BaboJay_126, Sotrice96_131, Amao_131, Stank_129, Pat3_126, Dusk_126, Balomoji_127, Inca_126, Cookies_128, Tuco_131, Bench_128, Czyszczone1_126, Phaux_128, Ukulele_121, Kostya_128, Mindy_129, Flypotenuse_122, 244_128, Moldemort_128, Porky_126, Toto_125, Asriel_124, Simpliphy_124, MadamMonkfish_127, Saints25_122, ChotaBhai_130, Nimrod_127, Maxxinista_128, Cactus_134, ShamWow_127, Icee_131, Thimble_126, BilboSwaggins_125, HanKaySha_126
- Track 3 : MollyToe_121, Buck_127, Brewer_120, Greep_131, StormChicken_128
- Track 4 : xkcd_130
- Track 5 : Budgie_134

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 4, it was called in 79 of the 123 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adnama_130, AmericanBeauty_129, Argent26_130, BadStone_127, Barbarian_126, Bask21_131, Becksu_126, BigBubba_128, Brewer_120, Bruin_123, Buck_127, BugsBunny_126, ChosenOne_128, Command613_129, CrystalP_127, Daikon_128, DoctorDiddles_125, DrDrey_130, Easy2Say_126, Elite2014_127, Elph10_125, Emmina_126, Eureka_126, FairyPath_125, Filch_129, FireRed_129, FoghornLeghorn_125, Gage_128, Gemini_131, Glexan_130, GoldenSpark_130, Goldilocks_130, GooberAzure_128, Greep_131, Harella_132, Henry_128, Highbury_122, Holt_132, Hoonter_129, Hopey_126, HufflyPuff_128, IHOP_129, JeTaime_125, Kanye_123, Kimchi_131, Lilizi_126, Lilpickle_127, MISSy_127, MPhalcon_127, Manda_127, Marshmallow_128, Miniwave_120, Misfit_127, MollyToe_121, Mosby_123, Murica_130, Myrale_127, Nala_128, NoSleep_126, OrionPax_123, Palpatine_127, Paperbeatsrock_125, Petra64142_129, Phaja_129, Pharsalus_124, PhatBacter_129, Policronamos_129, Ptowny_121, Pumpkin_127, Quallification_127, Rakim_128, Rimmer_124, RiverMonster_125, Sassay_121, ShereKhan_124, SophKB_125, Stark_125, StellaBean_124, StolenFromERC_128, StormChicken_128, TBrady12_130, Tarkin_125, TeardropMSU_126, Terminus_129, Thresher_127, Traaww1_123, Willez_122, Xandras_126, YassJohnny_123, Youngblood_130,

Genes that have the "Most Annotated" start but do not call it:

- 244_128, ABCat_127, Amao_131, Asriel_124, BaboJay_126, Balomoji_127, Bench_128, BilboSwaggins_125, Cactus_134, ChotaBhai_130, Cjw1_126, Contagion_123, Cookies_128, Czystczon1_126, Dumbo_128, Dusk_126, Flypotenuse_122, Gator_128, HanKaySha_126, Icee_131, Inca_126, Kostya_128, MadamMonkfish_127, Maxxinista_128, Mindy_129, Moldemort_128, Murphy_125, NelitzaMV_123, Nimrod_127, NonchalantPear_124, Pat3_126, Phaux_128, Phrux_122, Porky_126, Saints25_122, ShamWow_127, Simpliphy_124, Sotrice96_131, Stank_129, Thimble_126, Tomaszewski_121, Toto_125, Tuco_131, Ukulele_121, Wiggin_129, xkcd_130,

Genes that do not have the "Most Annotated" start:

- Budgie_134,

Summary by start number:

Start 2:

- Found in 136 of 137 (99.3%) of genes in pham
- Manual Annotations of this start: 44 of 123
- Called 33.8% of time when present
- Phage (with cluster) where this start called: 244_128 (E), ABCat_127 (E), Amao_131 (E), Asriel_124 (E), BaboJay_126 (E), Balomoji_127 (E), Bench_128 (E), BilboSwaggins_125 (E), Cactus_134 (E), ChotaBhai_130 (E), Cjw1_126 (E), Contagion_123 (E), Cookies_128 (E), Czystczon1_126 (E), Dumbo_128 (E), Dusk_126 (E), Flypotenuse_122 (E), Gator_128 (E), HanKaySha_126 (E), Icee_131 (E), Inca_126 (E), Kostya_128 (E), MadamMonkfish_127 (E), Maxxinista_128 (E), Mindy_129 (E), Moldemort_128 (E), Murphy_125 (E), NelitzaMV_123 (E), Nimrod_127 (E), NonchalantPear_124 (E), Pat3_126 (E), Phaux_128 (E), Phrux_122 (E), Porky_126 (E), Saints25_122 (E), ShamWow_127 (E), Simpliphy_124 (E), Sotrice96_131 (E), Stank_129 (E), Thimble_126 (E), Tomaszewski_121 (E), Toto_125 (E), Tuco_131 (E), Ukulele_121 (E), Wiggin_129 (E), xkcd_130 (E),

Start 3:

- Found in 1 of 137 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Budgie_134 (E),

Start 4:

- Found in 136 of 137 (99.3%) of genes in pham
- Manual Annotations of this start: 79 of 123
- Called 66.2% of time when present
- Phage (with cluster) where this start called: Adnama_130 (E), AmericanBeauty_129 (E), Argent26_130 (E), BadStone_127 (E), Barbarian_126 (E), Bask21_131 (E), Becksu_126 (E), BigBubba_128 (E), Brewer_120 (E), Bruin_123 (E), Buck_127 (E), BugsBunny_126 (E), ChosenOne_128 (E), Command613_129 (E), CrystalP_127 (E), Daikon_128 (E), DoctorDiddles_125 (E), DrDrey_130 (E), Easy2Say_126 (E), Elite2014_127 (E), Elph10_125 (E), Emmina_126 (E), Eureka_126 (E), FairyPath_125 (E), Filch_129 (E), FireRed_129 (E), FoghornLeghorn_125 (E), Gage_128 (E), Gemini_131 (E), Glexan_130 (E), GoldenSpark_130 (E), Goldilocks_130 (E), GooberAzure_128 (E), Greep_131 (E), Harella_132 (E), Henry_128 (E), Highbury_122 (E), Holt_132 (E), Hoonter_129 (E), Hopey_126 (E), HufflyPuff_128 (E), IHOP_129 (E), JeTaime_125 (E), Kanye_123 (E), Kimchi_131 (E), Lilizi_126 (E), Lilpickle_127 (E), MISSy_127 (E), MPhalcon_127 (E), Manda_127 (E), Marshmallow_128 (E), Miniwave_120 (E), Misfit_127 (E), MollyToe_121 (E), Mosby_123 (E), Murica_130 (E), Myrale_127 (E), Nala_128 (E), NoSleep_126 (E), OrionPax_123 (E), Palpatine_127 (E), Paperbeatsrock_125 (E), Petra64142_129 (E), Phaja_129 (E), Pharsalus_124 (E), PhatBacter_129 (E), Policronamos_129 (E), Ptowny_121 (E), Pumpkin_127 (E), Quallification_127 (E), Rakim_128 (E), Rimmer_124 (E), RiverMonster_125 (E), Sassay_121 (E), ShereKhan_124 (E), SophKB_125 (E), Stark_125 (E), StellaBean_124 (E), StolenFromERC_128 (E), StormChicken_128 (E), TBrady12_130 (E), Tarkin_125 (E), TeardropMSU_126 (E), Terminus_129 (E), Thresher_127 (E), Traaww1_123 (E), Willez_122 (E), Xandras_126 (E), YassJohnny_123 (E), Youngblood_130 (E),

Summary by clusters:

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

- Start number 2 was manually annotated 44 times for cluster E.
- Start number 4 was manually annotated 79 times for cluster E.

Gene Information:

Gene: 244_128 Start: 68185, Stop: 68346, Start Num: 2

Candidate Starts for 244_128:

(Start: 2 @68185 has 44 MA's), (Start: 4 @68212 has 79 MA's), (5, 68224), (7, 68269), (8, 68284), (9, 68293), (10, 68305),

Gene: ABCat_127 Start: 69668, Stop: 69829, Start Num: 2

Candidate Starts for ABCat_127:

(Start: 2 @69668 has 44 MA's), (Start: 4 @69695 has 79 MA's), (5, 69707), (7, 69752), (8, 69767), (9, 69776), (10, 69788),

Gene: Adnama_130 Start: 68125, Stop: 68259, Start Num: 4

Candidate Starts for Adnama_130:

(Start: 2 @68098 has 44 MA's), (Start: 4 @68125 has 79 MA's), (5, 68137), (7, 68182), (8, 68197), (9, 68206), (10, 68218),

Gene: Amao_131 Start: 69326, Stop: 69487, Start Num: 2

Candidate Starts for Amao_131:

(Start: 2 @69326 has 44 MA's), (Start: 4 @69353 has 79 MA's), (5, 69365), (7, 69410), (8, 69425), (9, 69434), (10, 69446),

Gene: AmericanBeauty_129 Start: 68167, Stop: 68301, Start Num: 4

Candidate Starts for AmericanBeauty_129:

(Start: 2 @68140 has 44 MA's), (Start: 4 @68167 has 79 MA's), (5, 68179), (7, 68224), (8, 68239), (9, 68248), (10, 68260),

Gene: Argent26_130 Start: 68049, Stop: 68183, Start Num: 4

Candidate Starts for Argent26_130:

(Start: 2 @68022 has 44 MA's), (Start: 4 @68049 has 79 MA's), (5, 68061), (7, 68106), (8, 68121), (9, 68130), (10, 68142),

Gene: Asriel_124 Start: 66973, Stop: 67134, Start Num: 2

Candidate Starts for Asriel_124:

(Start: 2 @66973 has 44 MA's), (Start: 4 @67000 has 79 MA's), (5, 67012), (7, 67057), (8, 67072), (9, 67081), (10, 67093),

Gene: BaboJay_126 Start: 69358, Stop: 69519, Start Num: 2

Candidate Starts for BaboJay_126:

(Start: 2 @69358 has 44 MA's), (Start: 4 @69385 has 79 MA's), (5, 69397), (7, 69442), (8, 69457), (9, 69466), (10, 69478),

Gene: BadStone_127 Start: 69243, Stop: 69377, Start Num: 4

Candidate Starts for BadStone_127:

(Start: 2 @69216 has 44 MA's), (Start: 4 @69243 has 79 MA's), (5, 69255), (7, 69300), (8, 69315), (9, 69324), (10, 69336),

Gene: Balomoji_127 Start: 68756, Stop: 68917, Start Num: 2

Candidate Starts for Balomoji_127:

(Start: 2 @68756 has 44 MA's), (Start: 4 @68783 has 79 MA's), (5, 68795), (7, 68840), (8, 68855), (9, 68864), (10, 68876),

Gene: Barbarian_126 Start: 67000, Stop: 67134, Start Num: 4

Candidate Starts for Barbarian_126:

(Start: 2 @66973 has 44 MA's), (Start: 4 @67000 has 79 MA's), (5, 67012), (7, 67057), (8, 67072), (9, 67081), (10, 67093),

Gene: Bask21_131 Start: 68155, Stop: 68289, Start Num: 4

Candidate Starts for Bask21_131:

(Start: 2 @68128 has 44 MA's), (Start: 4 @68155 has 79 MA's), (5, 68167), (7, 68212), (8, 68227), (9, 68236), (10, 68248),

Gene: Becksu_126 Start: 69031, Stop: 69165, Start Num: 4

Candidate Starts for Becksu_126:

(Start: 2 @69004 has 44 MA's), (Start: 4 @69031 has 79 MA's), (5, 69043), (7, 69088), (8, 69103), (9, 69112), (10, 69124),

Gene: Bench_128 Start: 68779, Stop: 68940, Start Num: 2

Candidate Starts for Bench_128:

(Start: 2 @68779 has 44 MA's), (Start: 4 @68806 has 79 MA's), (5, 68818), (7, 68863), (8, 68878), (9, 68887), (10, 68899),

Gene: BigBubba_128 Start: 67858, Stop: 67992, Start Num: 4

Candidate Starts for BigBubba_128:

(Start: 2 @67831 has 44 MA's), (Start: 4 @67858 has 79 MA's), (5, 67870), (7, 67915), (8, 67930), (9, 67939), (10, 67951),

Gene: BilboSwaggins_125 Start: 69253, Stop: 69414, Start Num: 2

Candidate Starts for BilboSwaggins_125:

(Start: 2 @69253 has 44 MA's), (Start: 4 @69280 has 79 MA's), (5, 69292), (7, 69337), (8, 69352), (9, 69361), (10, 69373),

Gene: Brewer_120 Start: 66962, Stop: 67096, Start Num: 4

Candidate Starts for Brewer_120:

(Start: 2 @66935 has 44 MA's), (Start: 4 @66962 has 79 MA's), (5, 66974), (7, 67019), (8, 67034), (9, 67043), (10, 67055), (12, 67091),

Gene: Bruin_123 Start: 67490, Stop: 67624, Start Num: 4

Candidate Starts for Bruin_123:

(Start: 2 @67463 has 44 MA's), (Start: 4 @67490 has 79 MA's), (5, 67502), (7, 67547), (8, 67562), (9, 67571), (10, 67583),

Gene: Buck_127 Start: 69306, Stop: 69440, Start Num: 4

Candidate Starts for Buck_127:

(Start: 2 @69279 has 44 MA's), (Start: 4 @69306 has 79 MA's), (5, 69318), (7, 69363), (8, 69378), (9, 69387), (10, 69399), (12, 69435),

Gene: Budgie_134 Start: 69269, Stop: 69469, Start Num: 3

Candidate Starts for Budgie_134:

(1, 69212), (3, 69269), (6, 69332), (8, 69359), (9, 69368), (11, 69389),

Gene: BugsBunny_126 Start: 68804, Stop: 68938, Start Num: 4

Candidate Starts for BugsBunny_126:

(Start: 2 @68777 has 44 MA's), (Start: 4 @68804 has 79 MA's), (5, 68816), (7, 68861), (8, 68876), (9, 68885), (10, 68897),

Gene: Cactus_134 Start: 68576, Stop: 68737, Start Num: 2

Candidate Starts for Cactus_134:

(Start: 2 @68576 has 44 MA's), (Start: 4 @68603 has 79 MA's), (5, 68615), (7, 68660), (8, 68675), (9, 68684), (10, 68696),

Gene: ChosenOne_128 Start: 68280, Stop: 68414, Start Num: 4

Candidate Starts for ChosenOne_128:

(Start: 2 @68253 has 44 MA's), (Start: 4 @68280 has 79 MA's), (5, 68292), (7, 68337), (8, 68352), (9, 68361), (10, 68373),

Gene: ChotaBhai_130 Start: 68975, Stop: 69136, Start Num: 2

Candidate Starts for ChotaBhai_130:

(Start: 2 @68975 has 44 MA's), (Start: 4 @69002 has 79 MA's), (5, 69014), (7, 69059), (8, 69074), (9, 69083), (10, 69095),

Gene: Cjw1_126 Start: 69472, Stop: 69633, Start Num: 2

Candidate Starts for Cjw1_126:

(Start: 2 @69472 has 44 MA's), (Start: 4 @69499 has 79 MA's), (5, 69511), (7, 69556), (8, 69571), (9, 69580), (10, 69592),

Gene: Command613_129 Start: 68776, Stop: 68910, Start Num: 4

Candidate Starts for Command613_129:

(Start: 2 @68749 has 44 MA's), (Start: 4 @68776 has 79 MA's), (5, 68788), (7, 68833), (8, 68848), (9, 68857), (10, 68869),

Gene: Contagion_123 Start: 67825, Stop: 67986, Start Num: 2

Candidate Starts for Contagion_123:

(Start: 2 @67825 has 44 MA's), (Start: 4 @67852 has 79 MA's), (5, 67864), (7, 67909), (8, 67924), (9, 67933), (10, 67945),

Gene: Cookies_128 Start: 69059, Stop: 69220, Start Num: 2

Candidate Starts for Cookies_128:

(Start: 2 @69059 has 44 MA's), (Start: 4 @69086 has 79 MA's), (5, 69098), (7, 69143), (8, 69158), (9, 69167), (10, 69179),

Gene: CrystalP_127 Start: 69280, Stop: 69414, Start Num: 4

Candidate Starts for CrystalP_127:

(Start: 2 @69253 has 44 MA's), (Start: 4 @69280 has 79 MA's), (5, 69292), (7, 69337), (8, 69352), (9, 69361), (10, 69373),

Gene: Czyszczone1_126 Start: 67818, Stop: 67979, Start Num: 2

Candidate Starts for Czyszczone1_126:

(Start: 2 @67818 has 44 MA's), (Start: 4 @67845 has 79 MA's), (5, 67857), (7, 67902), (8, 67917), (9, 67926), (10, 67938),

Gene: Daikon_128 Start: 68079, Stop: 68213, Start Num: 4

Candidate Starts for Daikon_128:

(Start: 2 @68052 has 44 MA's), (Start: 4 @68079 has 79 MA's), (5, 68091), (7, 68136), (8, 68151), (9, 68160), (10, 68172),

Gene: DoctorDiddles_125 Start: 67739, Stop: 67873, Start Num: 4

Candidate Starts for DoctorDiddles_125:

(Start: 2 @67712 has 44 MA's), (Start: 4 @67739 has 79 MA's), (5, 67751), (7, 67796), (8, 67811), (9, 67820), (10, 67832),

Gene: DrDrey_130 Start: 70476, Stop: 70610, Start Num: 4

Candidate Starts for DrDrey_130:

(Start: 2 @70449 has 44 MA's), (Start: 4 @70476 has 79 MA's), (5, 70488), (7, 70533), (8, 70548), (9, 70557), (10, 70569),

Gene: Dumbo_128 Start: 68445, Stop: 68606, Start Num: 2

Candidate Starts for Dumbo_128:

(Start: 2 @68445 has 44 MA's), (Start: 4 @68472 has 79 MA's), (5, 68484), (7, 68529), (8, 68544), (9, 68553), (10, 68565),

Gene: Dusk_126 Start: 68876, Stop: 69037, Start Num: 2

Candidate Starts for Dusk_126:

(Start: 2 @68876 has 44 MA's), (Start: 4 @68903 has 79 MA's), (5, 68915), (7, 68960), (8, 68975), (9, 68984), (10, 68996),

Gene: Easy2Say_126 Start: 68516, Stop: 68650, Start Num: 4

Candidate Starts for Easy2Say_126:

(Start: 2 @68489 has 44 MA's), (Start: 4 @68516 has 79 MA's), (5, 68528), (7, 68573), (8, 68588), (9, 68597), (10, 68609),

Gene: Elite2014_127 Start: 68279, Stop: 68413, Start Num: 4

Candidate Starts for Elite2014_127:

(Start: 2 @68252 has 44 MA's), (Start: 4 @68279 has 79 MA's), (5, 68291), (7, 68336), (8, 68351), (9, 68360), (10, 68372),

Gene: Elph10_125 Start: 67528, Stop: 67662, Start Num: 4

Candidate Starts for Elph10_125:

(Start: 2 @67501 has 44 MA's), (Start: 4 @67528 has 79 MA's), (5, 67540), (7, 67585), (8, 67600), (9, 67609), (10, 67621),

Gene: Emmina_126 Start: 67467, Stop: 67601, Start Num: 4

Candidate Starts for Emmina_126:

(Start: 2 @67440 has 44 MA's), (Start: 4 @67467 has 79 MA's), (5, 67479), (7, 67524), (8, 67539), (9, 67548), (10, 67560),

Gene: Eureka_126 Start: 68655, Stop: 68789, Start Num: 4

Candidate Starts for Eureka_126:

(Start: 2 @68628 has 44 MA's), (Start: 4 @68655 has 79 MA's), (5, 68667), (7, 68712), (8, 68727), (9, 68736), (10, 68748),

Gene: FairyPath_125 Start: 68960, Stop: 69094, Start Num: 4

Candidate Starts for FairyPath_125:

(Start: 2 @68933 has 44 MA's), (Start: 4 @68960 has 79 MA's), (5, 68972), (7, 69017), (8, 69032), (9, 69041), (10, 69053),

Gene: Filch_129 Start: 68421, Stop: 68555, Start Num: 4

Candidate Starts for Filch_129:

(Start: 2 @68394 has 44 MA's), (Start: 4 @68421 has 79 MA's), (5, 68433), (7, 68478), (8, 68493), (9, 68502), (10, 68514),

Gene: FireRed_129 Start: 68931, Stop: 69065, Start Num: 4

Candidate Starts for FireRed_129:

(Start: 2 @68904 has 44 MA's), (Start: 4 @68931 has 79 MA's), (5, 68943), (7, 68988), (8, 69003), (9, 69012), (10, 69024),

Gene: Flypotenuse_122 Start: 67627, Stop: 67788, Start Num: 2

Candidate Starts for Flypotenuse_122:

(Start: 2 @67627 has 44 MA's), (Start: 4 @67654 has 79 MA's), (5, 67666), (7, 67711), (8, 67726), (9, 67735), (10, 67747),

Gene: FoghornLeghorn_125 Start: 67368, Stop: 67502, Start Num: 4

Candidate Starts for FoghornLeghorn_125:

(Start: 2 @67341 has 44 MA's), (Start: 4 @67368 has 79 MA's), (5, 67380), (7, 67425), (8, 67440), (9, 67449), (10, 67461),

Gene: Gage_128 Start: 68187, Stop: 68321, Start Num: 4

Candidate Starts for Gage_128:

(Start: 2 @68160 has 44 MA's), (Start: 4 @68187 has 79 MA's), (5, 68199), (7, 68244), (8, 68259), (9, 68268), (10, 68280),

Gene: Gator_128 Start: 69023, Stop: 69184, Start Num: 2

Candidate Starts for Gator_128:

(Start: 2 @69023 has 44 MA's), (Start: 4 @69050 has 79 MA's), (5, 69062), (7, 69107), (8, 69122), (9, 69131), (10, 69143),

Gene: Gemini_131 Start: 68566, Stop: 68700, Start Num: 4

Candidate Starts for Gemini_131:

(Start: 2 @68539 has 44 MA's), (Start: 4 @68566 has 79 MA's), (5, 68578), (7, 68623), (8, 68638), (9, 68647), (10, 68659),

Gene: Glexan_130 Start: 69200, Stop: 69334, Start Num: 4

Candidate Starts for Glexan_130:

(Start: 2 @69173 has 44 MA's), (Start: 4 @69200 has 79 MA's), (5, 69212), (7, 69257), (8, 69272), (9, 69281), (10, 69293),

Gene: GoldenSpark_130 Start: 68049, Stop: 68183, Start Num: 4

Candidate Starts for GoldenSpark_130:

(Start: 2 @68022 has 44 MA's), (Start: 4 @68049 has 79 MA's), (5, 68061), (7, 68106), (8, 68121), (9, 68130), (10, 68142),

Gene: Goldilocks_130 Start: 68645, Stop: 68779, Start Num: 4

Candidate Starts for Goldilocks_130:

(Start: 2 @68618 has 44 MA's), (Start: 4 @68645 has 79 MA's), (5, 68657), (7, 68702), (8, 68717), (9, 68726), (10, 68738),

Gene: GooberAzure_128 Start: 68049, Stop: 68183, Start Num: 4

Candidate Starts for GooberAzure_128:

(Start: 2 @68022 has 44 MA's), (Start: 4 @68049 has 79 MA's), (5, 68061), (7, 68106), (8, 68121), (9, 68130), (10, 68142),

Gene: Greep_131 Start: 69621, Stop: 69755, Start Num: 4

Candidate Starts for Greep_131:

(Start: 2 @69594 has 44 MA's), (Start: 4 @69621 has 79 MA's), (5, 69633), (7, 69678), (8, 69693), (9, 69702), (10, 69714), (12, 69750),

Gene: HanKaySha_126 Start: 68210, Stop: 68371, Start Num: 2

Candidate Starts for HanKaySha_126:

(Start: 2 @68210 has 44 MA's), (Start: 4 @68237 has 79 MA's), (5, 68249), (7, 68294), (8, 68309), (9, 68318), (10, 68330),

Gene: Harella_132 Start: 69716, Stop: 69850, Start Num: 4

Candidate Starts for Harella_132:

(Start: 2 @69689 has 44 MA's), (Start: 4 @69716 has 79 MA's), (5, 69728), (7, 69773), (8, 69788), (9, 69797), (10, 69809),

Gene: Henry_128 Start: 69001, Stop: 69135, Start Num: 4

Candidate Starts for Henry_128:

(Start: 2 @68974 has 44 MA's), (Start: 4 @69001 has 79 MA's), (5, 69013), (7, 69058), (8, 69073), (9, 69082), (10, 69094),

Gene: Highbury_122 Start: 66394, Stop: 66528, Start Num: 4

Candidate Starts for Highbury_122:

(Start: 2 @66367 has 44 MA's), (Start: 4 @66394 has 79 MA's), (5, 66406), (7, 66451), (8, 66466), (9, 66475), (10, 66487),

Gene: Holt_132 Start: 69043, Stop: 69177, Start Num: 4

Candidate Starts for Holt_132:

(Start: 2 @69016 has 44 MA's), (Start: 4 @69043 has 79 MA's), (5, 69055), (7, 69100), (8, 69115), (9, 69124), (10, 69136),

Gene: Hoonter_129 Start: 68542, Stop: 68676, Start Num: 4

Candidate Starts for Hoonter_129:

(Start: 2 @68515 has 44 MA's), (Start: 4 @68542 has 79 MA's), (5, 68554), (7, 68599), (8, 68614), (9, 68623), (10, 68635),

Gene: Hopey_126 Start: 68848, Stop: 68982, Start Num: 4

Candidate Starts for Hopey_126:

(Start: 2 @68821 has 44 MA's), (Start: 4 @68848 has 79 MA's), (5, 68860), (7, 68905), (8, 68920), (9, 68929), (10, 68941),

Gene: HufflyPuff_128 Start: 69157, Stop: 69291, Start Num: 4

Candidate Starts for HufflyPuff_128:

(Start: 2 @69130 has 44 MA's), (Start: 4 @69157 has 79 MA's), (5, 69169), (7, 69214), (8, 69229), (9, 69238), (10, 69250),

Gene: IHOP_129 Start: 68719, Stop: 68853, Start Num: 4

Candidate Starts for IHOP_129:

(Start: 2 @68692 has 44 MA's), (Start: 4 @68719 has 79 MA's), (5, 68731), (7, 68776), (8, 68791), (9, 68800), (10, 68812),

Gene: Icee_131 Start: 68567, Stop: 68728, Start Num: 2

Candidate Starts for Icee_131:

(Start: 2 @68567 has 44 MA's), (Start: 4 @68594 has 79 MA's), (5, 68606), (7, 68651), (8, 68666), (9, 68675), (10, 68687),

Gene: Inca_126 Start: 66776, Stop: 66937, Start Num: 2

Candidate Starts for Inca_126:

(Start: 2 @66776 has 44 MA's), (Start: 4 @66803 has 79 MA's), (5, 66815), (7, 66860), (8, 66875), (9, 66884), (10, 66896),

Gene: JeTaime_125 Start: 68255, Stop: 68389, Start Num: 4

Candidate Starts for JeTaime_125:

(Start: 2 @68228 has 44 MA's), (Start: 4 @68255 has 79 MA's), (5, 68267), (7, 68312), (8, 68327), (9, 68336), (10, 68348),

Gene: Kanye_123 Start: 68298, Stop: 68432, Start Num: 4

Candidate Starts for Kanye_123:

(Start: 2 @68271 has 44 MA's), (Start: 4 @68298 has 79 MA's), (5, 68310), (7, 68355), (8, 68370), (9, 68379), (10, 68391),

Gene: Kimchi_131 Start: 68770, Stop: 68904, Start Num: 4

Candidate Starts for Kimchi_131:

(Start: 2 @68743 has 44 MA's), (Start: 4 @68770 has 79 MA's), (5, 68782), (7, 68827), (8, 68842), (9, 68851), (10, 68863),

Gene: Kostya_128 Start: 68794, Stop: 68955, Start Num: 2

Candidate Starts for Kostya_128:

(Start: 2 @68794 has 44 MA's), (Start: 4 @68821 has 79 MA's), (5, 68833), (7, 68878), (8, 68893), (9, 68902), (10, 68914),

Gene: Lilizi_126 Start: 68277, Stop: 68411, Start Num: 4

Candidate Starts for Lilizi_126:

(Start: 2 @68250 has 44 MA's), (Start: 4 @68277 has 79 MA's), (5, 68289), (7, 68334), (8, 68349), (9, 68358), (10, 68370),

Gene: Lilpickle_127 Start: 68279, Stop: 68413, Start Num: 4

Candidate Starts for Lilpickle_127:

(Start: 2 @68252 has 44 MA's), (Start: 4 @68279 has 79 MA's), (5, 68291), (7, 68336), (8, 68351), (9, 68360), (10, 68372),

Gene: MISSy_127 Start: 68974, Stop: 69108, Start Num: 4

Candidate Starts for MISSy_127:

(Start: 2 @68947 has 44 MA's), (Start: 4 @68974 has 79 MA's), (5, 68986), (7, 69031), (8, 69046), (9, 69055), (10, 69067),

Gene: MPhalcon_127 Start: 68392, Stop: 68526, Start Num: 4

Candidate Starts for MPhalcon_127:

(Start: 2 @68365 has 44 MA's), (Start: 4 @68392 has 79 MA's), (5, 68404), (7, 68449), (8, 68464), (9, 68473), (10, 68485),

Gene: MadamMonkfish_127 Start: 68262, Stop: 68423, Start Num: 2

Candidate Starts for MadamMonkfish_127:

(Start: 2 @68262 has 44 MA's), (Start: 4 @68289 has 79 MA's), (5, 68301), (7, 68346), (8, 68361), (9, 68370), (10, 68382),

Gene: Manda_127 Start: 68429, Stop: 68563, Start Num: 4

Candidate Starts for Manda_127:

(Start: 2 @68402 has 44 MA's), (Start: 4 @68429 has 79 MA's), (5, 68441), (7, 68486), (8, 68501), (9, 68510), (10, 68522),

Gene: Marshmallow_128 Start: 69408, Stop: 69542, Start Num: 4

Candidate Starts for Marshmallow_128:

(Start: 2 @69381 has 44 MA's), (Start: 4 @69408 has 79 MA's), (5, 69420), (7, 69465), (8, 69480), (9, 69489), (10, 69501),

Gene: Maxxinista_128 Start: 68149, Stop: 68310, Start Num: 2

Candidate Starts for Maxxinista_128:

(Start: 2 @68149 has 44 MA's), (Start: 4 @68176 has 79 MA's), (5, 68188), (7, 68233), (8, 68248), (9, 68257), (10, 68269),

Gene: Mindy_129 Start: 68540, Stop: 68701, Start Num: 2

Candidate Starts for Mindy_129:

(Start: 2 @68540 has 44 MA's), (Start: 4 @68567 has 79 MA's), (5, 68579), (7, 68624), (8, 68639), (9, 68648), (10, 68660),

Gene: Miniwave_120 Start: 67885, Stop: 68019, Start Num: 4

Candidate Starts for Miniwave_120:

(Start: 2 @67858 has 44 MA's), (Start: 4 @67885 has 79 MA's), (5, 67897), (7, 67942), (8, 67957), (9, 67966), (10, 67978),

Gene: Misfit_127 Start: 69488, Stop: 69622, Start Num: 4

Candidate Starts for Misfit_127:

(Start: 2 @69461 has 44 MA's), (Start: 4 @69488 has 79 MA's), (5, 69500), (7, 69545), (8, 69560), (9, 69569), (10, 69581),

Gene: Moldemort_128 Start: 68130, Stop: 68291, Start Num: 2

Candidate Starts for Moldemort_128:

(Start: 2 @68130 has 44 MA's), (Start: 4 @68157 has 79 MA's), (5, 68169), (7, 68214), (8, 68229), (9, 68238), (10, 68250),

Gene: MollyToe_121 Start: 66265, Stop: 66399, Start Num: 4

Candidate Starts for MollyToe_121:

(Start: 2 @66238 has 44 MA's), (Start: 4 @66265 has 79 MA's), (5, 66277), (7, 66322), (8, 66337), (9, 66346), (10, 66358), (12, 66394),

Gene: Mosby_123 Start: 67852, Stop: 67986, Start Num: 4

Candidate Starts for Mosby_123:

(Start: 2 @67825 has 44 MA's), (Start: 4 @67852 has 79 MA's), (5, 67864), (7, 67909), (8, 67924), (9, 67933), (10, 67945),

Gene: Murica_130 Start: 70191, Stop: 70325, Start Num: 4

Candidate Starts for Murica_130:

(Start: 2 @70164 has 44 MA's), (Start: 4 @70191 has 79 MA's), (5, 70203), (7, 70248), (8, 70263), (9, 70272), (10, 70284),

Gene: Murphy_125 Start: 68522, Stop: 68683, Start Num: 2

Candidate Starts for Murphy_125:

(Start: 2 @68522 has 44 MA's), (Start: 4 @68549 has 79 MA's), (5, 68561), (7, 68606), (8, 68621), (9, 68630), (10, 68642),

Gene: Myrale_127 Start: 69064, Stop: 69198, Start Num: 4

Candidate Starts for Myrale_127:

(Start: 2 @69037 has 44 MA's), (Start: 4 @69064 has 79 MA's), (5, 69076), (7, 69121), (8, 69136), (9, 69145), (10, 69157),

Gene: Nala_128 Start: 68901, Stop: 69035, Start Num: 4

Candidate Starts for Nala_128:

(Start: 2 @68874 has 44 MA's), (Start: 4 @68901 has 79 MA's), (5, 68913), (7, 68958), (8, 68973), (9, 68982), (10, 68994),

Gene: NelitzaMV_123 Start: 66847, Stop: 67008, Start Num: 2

Candidate Starts for NelitzaMV_123:

(Start: 2 @66847 has 44 MA's), (Start: 4 @66874 has 79 MA's), (5, 66886), (7, 66931), (8, 66946), (9, 66955), (10, 66967),

Gene: Nimrod_127 Start: 69088, Stop: 69249, Start Num: 2

Candidate Starts for Nimrod_127:

(Start: 2 @69088 has 44 MA's), (Start: 4 @69115 has 79 MA's), (5, 69127), (7, 69172), (8, 69187), (9, 69196), (10, 69208),

Gene: NoSleep_126 Start: 67709, Stop: 67843, Start Num: 4

Candidate Starts for NoSleep_126:

(Start: 2 @67682 has 44 MA's), (Start: 4 @67709 has 79 MA's), (5, 67721), (7, 67766), (8, 67781), (9, 67790), (10, 67802),

Gene: NonchalantPear_124 Start: 67115, Stop: 67276, Start Num: 2

Candidate Starts for NonchalantPear_124:

(Start: 2 @67115 has 44 MA's), (Start: 4 @67142 has 79 MA's), (5, 67154), (7, 67199), (8, 67214), (9, 67223), (10, 67235),

Gene: OrionPax_123 Start: 67782, Stop: 67916, Start Num: 4

Candidate Starts for OrionPax_123:

(Start: 2 @67755 has 44 MA's), (Start: 4 @67782 has 79 MA's), (5, 67794), (7, 67839), (8, 67854), (9, 67863), (10, 67875),

Gene: Palpatine_127 Start: 69186, Stop: 69320, Start Num: 4

Candidate Starts for Palpatine_127:

(Start: 2 @69159 has 44 MA's), (Start: 4 @69186 has 79 MA's), (5, 69198), (7, 69243), (8, 69258), (9, 69267), (10, 69279),

Gene: Paperbeatsrock_125 Start: 68563, Stop: 68697, Start Num: 4

Candidate Starts for Paperbeatsrock_125:

(Start: 2 @68536 has 44 MA's), (Start: 4 @68563 has 79 MA's), (5, 68575), (7, 68620), (8, 68635), (9, 68644), (10, 68656),

Gene: Pat3_126 Start: 68034, Stop: 68195, Start Num: 2

Candidate Starts for Pat3_126:

(Start: 2 @68034 has 44 MA's), (Start: 4 @68061 has 79 MA's), (5, 68073), (7, 68118), (8, 68133), (9, 68142), (10, 68154),

Gene: Petra64142_129 Start: 69031, Stop: 69165, Start Num: 4

Candidate Starts for Petra64142_129:

(Start: 2 @69004 has 44 MA's), (Start: 4 @69031 has 79 MA's), (5, 69043), (7, 69088), (8, 69103), (9, 69112), (10, 69124),

Gene: Phaja_129 Start: 68724, Stop: 68858, Start Num: 4

Candidate Starts for Phaja_129:

(Start: 2 @68697 has 44 MA's), (Start: 4 @68724 has 79 MA's), (5, 68736), (7, 68781), (8, 68796), (9, 68805), (10, 68817),

Gene: Pharsalus_124 Start: 68703, Stop: 68837, Start Num: 4

Candidate Starts for Pharsalus_124:

(Start: 2 @68676 has 44 MA's), (Start: 4 @68703 has 79 MA's), (5, 68715), (7, 68760), (8, 68775), (9, 68784), (10, 68796),

Gene: PhatBacter_129 Start: 68931, Stop: 69065, Start Num: 4

Candidate Starts for PhatBacter_129:

(Start: 2 @68904 has 44 MA's), (Start: 4 @68931 has 79 MA's), (5, 68943), (7, 68988), (8, 69003), (9, 69012), (10, 69024),

Gene: Phaux_128 Start: 69464, Stop: 69625, Start Num: 2

Candidate Starts for Phaux_128:

(Start: 2 @69464 has 44 MA's), (Start: 4 @69491 has 79 MA's), (5, 69503), (7, 69548), (8, 69563), (9, 69572), (10, 69584),

Gene: Phrux_122 Start: 67542, Stop: 67703, Start Num: 2

Candidate Starts for Phrux_122:

(Start: 2 @67542 has 44 MA's), (Start: 4 @67569 has 79 MA's), (5, 67581), (7, 67626), (8, 67641), (9, 67650), (10, 67662),

Gene: Policronamos_129 Start: 69195, Stop: 69329, Start Num: 4

Candidate Starts for Policronamos_129:

(Start: 2 @69168 has 44 MA's), (Start: 4 @69195 has 79 MA's), (5, 69207), (7, 69252), (8, 69267), (9, 69276), (10, 69288),

Gene: Porky_126 Start: 68456, Stop: 68617, Start Num: 2

Candidate Starts for Porky_126:

(Start: 2 @68456 has 44 MA's), (Start: 4 @68483 has 79 MA's), (5, 68495), (7, 68540), (8, 68555), (9, 68564), (10, 68576),

Gene: Ptowny_121 Start: 66603, Stop: 66737, Start Num: 4

Candidate Starts for Ptowny_121:

(Start: 2 @66576 has 44 MA's), (Start: 4 @66603 has 79 MA's), (5, 66615), (7, 66660), (8, 66675), (9, 66684), (10, 66696),

Gene: Pumpkin_127 Start: 67909, Stop: 68043, Start Num: 4

Candidate Starts for Pumpkin_127:

(Start: 2 @67882 has 44 MA's), (Start: 4 @67909 has 79 MA's), (5, 67921), (7, 67966), (8, 67981), (9, 67990), (10, 68002),

Gene: Quallification_127 Start: 68977, Stop: 69111, Start Num: 4

Candidate Starts for Quallification_127:

(Start: 2 @68950 has 44 MA's), (Start: 4 @68977 has 79 MA's), (5, 68989), (7, 69034), (8, 69049), (9, 69058), (10, 69070),

Gene: Rakim_128 Start: 68397, Stop: 68531, Start Num: 4

Candidate Starts for Rakim_128:

(Start: 2 @68370 has 44 MA's), (Start: 4 @68397 has 79 MA's), (5, 68409), (7, 68454), (8, 68469), (9, 68478), (10, 68490),

Gene: Rimmer_124 Start: 68368, Stop: 68502, Start Num: 4

Candidate Starts for Rimmer_124:

(Start: 2 @68341 has 44 MA's), (Start: 4 @68368 has 79 MA's), (5, 68380), (7, 68425), (8, 68440), (9, 68449), (10, 68461),

Gene: RiverMonster_125 Start: 68464, Stop: 68598, Start Num: 4

Candidate Starts for RiverMonster_125:

(Start: 2 @68437 has 44 MA's), (Start: 4 @68464 has 79 MA's), (5, 68476), (7, 68521), (8, 68536), (9, 68545), (10, 68557),

Gene: Saints25_122 Start: 66367, Stop: 66528, Start Num: 2

Candidate Starts for Saints25_122:

(Start: 2 @66367 has 44 MA's), (Start: 4 @66394 has 79 MA's), (5, 66406), (7, 66451), (8, 66466), (9, 66475), (10, 66487),

Gene: Sassay_121 Start: 66814, Stop: 66948, Start Num: 4

Candidate Starts for Sassay_121:

(Start: 2 @66787 has 44 MA's), (Start: 4 @66814 has 79 MA's), (5, 66826), (7, 66871), (8, 66886), (9, 66895), (10, 66907),

Gene: ShamWow_127 Start: 69253, Stop: 69414, Start Num: 2

Candidate Starts for ShamWow_127:

(Start: 2 @69253 has 44 MA's), (Start: 4 @69280 has 79 MA's), (5, 69292), (7, 69337), (8, 69352), (9, 69361), (10, 69373),

Gene: ShereKhan_124 Start: 69223, Stop: 69357, Start Num: 4

Candidate Starts for ShereKhan_124:

(Start: 2 @69196 has 44 MA's), (Start: 4 @69223 has 79 MA's), (5, 69235), (7, 69280), (8, 69295), (9, 69304), (10, 69316),

Gene: Simpliphy_124 Start: 68008, Stop: 68169, Start Num: 2

Candidate Starts for Simpliphy_124:

(Start: 2 @68008 has 44 MA's), (Start: 4 @68035 has 79 MA's), (5, 68047), (7, 68092), (8, 68107), (9, 68116), (10, 68128),

Gene: SophKB_125 Start: 68445, Stop: 68579, Start Num: 4

Candidate Starts for SophKB_125:

(Start: 2 @68418 has 44 MA's), (Start: 4 @68445 has 79 MA's), (5, 68457), (7, 68502), (8, 68517), (9, 68526), (10, 68538),

Gene: Sotrice96_131 Start: 69320, Stop: 69481, Start Num: 2

Candidate Starts for Sotrice96_131:

(Start: 2 @69320 has 44 MA's), (Start: 4 @69347 has 79 MA's), (5, 69359), (7, 69404), (8, 69419), (9, 69428), (10, 69440),

Gene: Stank_129 Start: 68815, Stop: 68976, Start Num: 2

Candidate Starts for Stank_129:

(Start: 2 @68815 has 44 MA's), (Start: 4 @68842 has 79 MA's), (5, 68854), (7, 68899), (8, 68914), (9, 68923), (10, 68935),

Gene: Stark_125 Start: 68348, Stop: 68482, Start Num: 4

Candidate Starts for Stark_125:

(Start: 2 @68321 has 44 MA's), (Start: 4 @68348 has 79 MA's), (5, 68360), (7, 68405), (8, 68420), (9, 68429), (10, 68441),

Gene: StellaBean_124 Start: 68645, Stop: 68779, Start Num: 4

Candidate Starts for StellaBean_124:

(Start: 2 @68618 has 44 MA's), (Start: 4 @68645 has 79 MA's), (5, 68657), (7, 68702), (8, 68717), (9, 68726), (10, 68738),

Gene: StolenFromERC_128 Start: 68187, Stop: 68321, Start Num: 4

Candidate Starts for StolenFromERC_128:

(Start: 2 @68160 has 44 MA's), (Start: 4 @68187 has 79 MA's), (5, 68199), (7, 68244), (8, 68259), (9, 68268), (10, 68280),

Gene: StormChicken_128 Start: 69112, Stop: 69246, Start Num: 4

Candidate Starts for StormChicken_128:

(Start: 2 @69085 has 44 MA's), (Start: 4 @69112 has 79 MA's), (5, 69124), (7, 69169), (8, 69184), (9, 69193), (10, 69205), (12, 69241),

Gene: TBrady12_130 Start: 68279, Stop: 68413, Start Num: 4

Candidate Starts for TBrady12_130:

(Start: 2 @68252 has 44 MA's), (Start: 4 @68279 has 79 MA's), (5, 68291), (7, 68336), (8, 68351), (9, 68360), (10, 68372),

Gene: Tarkin_125 Start: 69088, Stop: 69222, Start Num: 4

Candidate Starts for Tarkin_125:

(Start: 2 @69061 has 44 MA's), (Start: 4 @69088 has 79 MA's), (5, 69100), (7, 69145), (8, 69160), (9, 69169), (10, 69181),

Gene: TeardropMSU_126 Start: 68449, Stop: 68583, Start Num: 4

Candidate Starts for TeardropMSU_126:

(Start: 2 @68422 has 44 MA's), (Start: 4 @68449 has 79 MA's), (5, 68461), (7, 68506), (8, 68521), (9, 68530), (10, 68542),

Gene: Terminus_129 Start: 69488, Stop: 69622, Start Num: 4

Candidate Starts for Terminus_129:

(Start: 2 @69461 has 44 MA's), (Start: 4 @69488 has 79 MA's), (5, 69500), (7, 69545), (8, 69560), (9, 69569), (10, 69581),

Gene: Thimble_126 Start: 67422, Stop: 67583, Start Num: 2

Candidate Starts for Thimble_126:

(Start: 2 @67422 has 44 MA's), (Start: 4 @67449 has 79 MA's), (5, 67461), (7, 67506), (8, 67521), (9, 67530), (10, 67542),

Gene: Thresher_127 Start: 69128, Stop: 69262, Start Num: 4

Candidate Starts for Thresher_127:

(Start: 2 @69101 has 44 MA's), (Start: 4 @69128 has 79 MA's), (5, 69140), (7, 69185), (8, 69200), (9, 69209), (10, 69221),

Gene: Tomaszewski_121 Start: 67999, Stop: 68160, Start Num: 2

Candidate Starts for Tomaszewski_121:

(Start: 2 @67999 has 44 MA's), (Start: 4 @68026 has 79 MA's), (5, 68038), (7, 68083), (8, 68098), (9, 68107), (10, 68119),

Gene: Toto_125 Start: 69253, Stop: 69414, Start Num: 2

Candidate Starts for Toto_125:

(Start: 2 @69253 has 44 MA's), (Start: 4 @69280 has 79 MA's), (5, 69292), (7, 69337), (8, 69352), (9, 69361), (10, 69373),

Gene: Traaww1_123 Start: 67829, Stop: 67963, Start Num: 4

Candidate Starts for Traaww1_123:

(Start: 2 @67802 has 44 MA's), (Start: 4 @67829 has 79 MA's), (5, 67841), (7, 67886), (8, 67901), (9, 67910), (10, 67922),

Gene: Tuco_131 Start: 70481, Stop: 70642, Start Num: 2

Candidate Starts for Tuco_131:

(Start: 2 @70481 has 44 MA's), (Start: 4 @70508 has 79 MA's), (5, 70520), (7, 70565), (8, 70580), (9, 70589), (10, 70601),

Gene: Ukulele_121 Start: 67818, Stop: 67979, Start Num: 2

Candidate Starts for Ukulele_121:

(Start: 2 @67818 has 44 MA's), (Start: 4 @67845 has 79 MA's), (5, 67857), (7, 67902), (8, 67917), (9, 67926), (10, 67938),

Gene: Wiggin_129 Start: 68245, Stop: 68406, Start Num: 2

Candidate Starts for Wiggin_129:

(Start: 2 @68245 has 44 MA's), (Start: 4 @68272 has 79 MA's), (5, 68284), (7, 68329), (8, 68344), (9, 68353), (10, 68365),

Gene: Willez_122 Start: 66909, Stop: 67043, Start Num: 4

Candidate Starts for Willez_122:

(Start: 2 @66882 has 44 MA's), (Start: 4 @66909 has 79 MA's), (5, 66921), (7, 66966), (8, 66981), (9, 66990), (10, 67002),

Gene: Xandras_126 Start: 68095, Stop: 68229, Start Num: 4

Candidate Starts for Xandras_126:

(Start: 2 @68068 has 44 MA's), (Start: 4 @68095 has 79 MA's), (5, 68107), (7, 68152), (8, 68167), (9, 68176), (10, 68188),

Gene: YassJohnny_123 Start: 66835, Stop: 66969, Start Num: 4

Candidate Starts for YassJohnny_123:

(Start: 2 @66808 has 44 MA's), (Start: 4 @66835 has 79 MA's), (5, 66847), (7, 66892), (8, 66907), (9, 66916), (10, 66928),

Gene: Youngblood_130 Start: 68984, Stop: 69118, Start Num: 4

Candidate Starts for Youngblood_130:

(Start: 2 @68957 has 44 MA's), (Start: 4 @68984 has 79 MA's), (5, 68996), (7, 69041), (8, 69056), (9, 69065), (10, 69077),

Gene: xkcd_130 Start: 69142, Stop: 69303, Start Num: 2

Candidate Starts for xkcd_130:

(Start: 2 @69142 has 44 MA's), (Start: 4 @69169 has 79 MA's), (5, 69181), (7, 69226), (8, 69241), (9, 69250), (10, 69262), (12, 69298),